#### [High Five](https://leetcode.com/problems/high-five/)

**import** java.util.ArrayList;

**import** java.util.Collections;

**import** java.util.HashMap;

**import** java.util.List;

**import** java.util.Map;

**public** **class** HighFive {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int**[][] items = {{1,91},{1,92},{2,93},{2,97},{1,60},{2,77},{1,65},{1,87},{1,100},{2,100},{2,76}};

**int**[][] result = *highFive*(items);

**for**(**int** i = 0 ; i < result.length ; i++) {

**for**(**int** j = 0 ; j < result.length ; j++) {

System.***out***.print(result[i][j] + " ");

}

System.***out***.println(" ");

}

}

**public** **static** **int**[][] highFive(**int**[][] items) {

Map<Integer, ArrayList<Integer>> map = **new** HashMap<>(); //to track each unique student id and list of their score as a list

**for**(**int** i = 0 ; i < items.length ; i++) {

**if**(!map.containsKey(items[i][0])) {

map.put(items[i][0], **new** ArrayList<>());

}

map.get(items[i][0]).add(items[i][1]);

}

**int**[][] result= **new** **int**[map.size()][2];

**int** j = 0 ;

**for** (Map.Entry<Integer,ArrayList<Integer>> entry : map.entrySet()) {

List<Integer> list = entry.getValue();

Collections.*sort*(list, Collections.*reverseOrder*()); //sort each students score in descending order to get top 5 marks

**int** sum = 0;

**for**(**int** i = 0 ; i < 5 ; i++) {

sum += list.get(i) != 0 ? list.get(i) : 0;

}

result[j][0] = entry.getKey();

result[j][1] = sum/5; //to find average of 5 top marks

j++;

}

**return** result;

}

}

Time Complexity : O(2n) , n is number of student marks entries

Space Complexity : O(n), n is number of student marks entries